

Instructions: Bold fields must be completed.

Station Summary			
Waterbody Name MECAN RIVER		Waterbody ID Code 155000	Sample ID (YYYYMMDD-CY-FD) 20171017-70-09
Sampling Location @ County Y			Database Key 149844323
SWIMS Station ID 10010709	SWIMS Station Name MECAN RIVER - CTH Y IBI STATION 1		
Latitude N 43.98859	Longitude W 89.35870	Lat/Long Determination Method (circle) SWIMS SWDV <u>GPS</u>	Datum Used if using GPS <u>WGS84</u> or NAD83
Basin (WMU) UPPER FOX	Watershed Name MECAN RIVER	County WAUSHARA	

Sample and Site Descriptors	
Sample Collector (Last Name, First) DAVID BOLHA	Project Name MACROINVERTEBRATE SPATIAL ANALYSIS

Sampling Device

D-Frame Kick Net     Surber Sampler     Eckman  
 Ponar     Artificial Substrate     Hess Sampler     Other: \_\_\_\_\_

Habitat Sampled

Riffle     Run     Pool  
 Other     Shoreline Composite     Proportionally-Sampled Habitat  
 Littoral Zone     Profundal Zone     Wetland

Total Sampling Time (min) 2.0	Estimated Area Sampled (m <sup>2</sup> ) 2.0	Number of Samples in Composite 1	Replicate No. _____ of _____
----------------------------------	---	-------------------------------------	------------------------------

Reason For Sampling

Least Impacted Reference     Baseline     Impact / Treatment Site  
 Control Site     Trend     Other: \_\_\_\_\_

Water Temp. (°C) <sup>10.2°C</sup> <del>50.3</del> F	D.O. (mg/l) 9.86	D.O. (% sat.) 87.2	pH (su) 8.07	Conductivity (umhos/cm) 360.9	Transparency (cm) 120
---	---------------------	-----------------------	-----------------	----------------------------------	--------------------------

Water Color <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Turbid <input type="checkbox"/> Stained	Estimated Stream Velocity (m/s) <input type="checkbox"/> Slow (< 0.15 m/s) <input type="checkbox"/> Moderate (0.15 m/s - 0.5 m/s) <input checked="" type="checkbox"/> Fast (> 0.5 m/s)
---	---

Measured Velocity 2.00 circle up its m/s or f/s	Average Stream Depth of reach (m) 0.5	Average Stream Width of reach (m) 8.0
---	--	--

Composition of Substrate Sampled (Percent):

Bedrock: \_\_\_\_\_ Boulders (basketball or larger): \_\_\_\_\_ Rubble (tennisball to basketball): 25 Gravel (ladybug to tennisball): 50  
 Sand: 25 Clay: \_\_\_\_\_ Silt/Muck: \_\_\_\_\_ Overhanging Vegetation: \_\_\_\_\_  
 Aquatic Macrophytes: \_\_\_\_\_ Leaf Snags: \_\_\_\_\_ Coarse Woody Debris: \_\_\_\_\_ Other (\_\_\_\_): \_\_\_\_\_

Embeddedness of Substrate at Sample Site (%) 30 Canopy Cover at Sample Site (%) 30

**Stream and Watershed Descriptors**

N = Not a problem  
 U = Uncertain  
 PL = Present, Low Impact  
 PH = Present, High Impact

Factors that may be influencing Water Resource Integrity		Local	Water-shed	Factors that may be influencing Water Resource Integrity		Local	Water-shed
<b>Biological</b>				<b>Chemical</b>			
Algae: - Diatoms / Periphyton				Chlorine			
- Filamentous Algae				Dissolved Oxygen			
- Planktonic Algae				Nutrients (P, N...)			
Iron Bacteria				Toxics: - Inorganic (Metals)			
Macrophytes				- Organic (PCBs, pesticides...)			
Slimes				Other - Specify:			
Other - Specify:				<b>Sources of Stream Impacts</b>			
				Bank Erosion			
				Point Source - Specify:			
				Pasturing of Livestock			
Bank Erosion				Runoff: - Barnyard			
Channelization: - Upstream				- Construction			
- Downstream				- Cropland			
Hydraulic Scour / Channel Incision				- Urban			
Impoundment: - Upstream				Septic Systems			
- Downstream				Tile Drainage - Organic Soils			
Low Flow				- Mineral Soils			
Sedimentation				Springs			
Sludge				Tributary(s)			
Thermal				Wetland			
Turbidity				Other - Specify:			
Other - Specify:							

Comments

Special Instructions for Laboratory

**For Lab Use Only**

Sample Sorter <i>Kiersten Carnevali</i>	Taxonomist <i>Dimick, Jeffrey</i>	Estimated Percent of Sample Sorted <i>7%</i>
Date Processed <i>11/26/2018</i>	Specimens Saved <i>Subsample archived in ABZ (with) Feb 2022</i>	

*BZ=182*

Taxa	Life Stage	Bench Tally	Count	Taxonomic Reference	Condition	Unique Taxon
Taeniopteryx	L	-1	6	Hils 1995		
Baetis brunneicolor	L	1	1	Kluch 2016		
B. flavistriga species complex	L	-	5	"		
Baetisca	L	1	1	"	dam	
Ephemerella	L	III	3	"	imm	N
E. invaria	L	II	2	"		
Tetiganopsis deficiens	L	-1	6	"		
Maccaffertium	L	III	4	"	imm	Y
M. medipunctatum	L	1	1	"		
M. vicarium	L	1	1	"		
Brachycentrus occidentalis	L	III	3	Hils 1995		
Microsema rusticum	L	III	3	"		
Hydropsychidae	L	I	1	Hils 1995	imm	N
Cheumatopsyche	L	X1	11	"		
Hydropsyche	L	II	2	"	imm	n=1, Y
H. betteni	L	1	1	Schm Hils 1986		
Ceratopsyche glossanae	L	X1	25	"		
C. sparsa	L	-	5	"		
Leuctrichia pictipes	L	II	2	Hils 1995		
Ditropisurus	L	0II	22	Hils Schm 1992	imm	N
D. fastidius	L	X	10	"		
Simulium jenningsi species group	L	1	1	Adl et al 2004		
Antocha	L	0III	24	Hils 1995		
Gammarus pseudolimnoides	A	-	5	Hils 1972		
Amblops	A	III	4	Pluch 1984		
Laevapex fusus	A	1	1	Thorp Poff 2016		
Naididae	A	1	1	Branfeld 1991		
Cladotanytarsus	L	XIII	8	Epl et al 2013		
Pagastia	L	III	3	Saeth Ander 2013		
Orthocladius 0030000	L	1	1	Cranston 2013	imm	N
Eukiefferiella devonica group	L	1	1	Ander 3 2013		
Orthocladius	L	1	1	"		
Cricotopus (Cricotopus) bicinctus group	L	1	1	"		
Microtendipes	L	1	1	"	mt indet	N
M. pedellus group	L	-III	8	"		
Rheotanytarsus	L	XIII	13	"		